Botany/Horticulture Science I MIS03# 01053 .5 or 1.0 credits Career CCTC CCTC Ready Agriculture, Food, and Natural Resources (AG) Cluster **Pathway Practices** AG.1 Analyze how issues, trends, technologies, and public policies impact systems in the AFNR Career Cluster AG.2 Evaluate the nature and scope of the AFNR Career Cluster and the role of AFNR in society and the economy. Examine and summarize the importance of health, safety, and environmental management systems in AFNR AG.3 businesses. AG.4 Demonstrate stewardship of natural resources in AFNR activities. Describe career opportunities and means to achieve those opportunities in each of the AFNR Career AG.5 Pathways. Analyze the interaction among AFNR systems in the production, processing, and management of food, fiber, AG.6 and fuel and the sustainable use of natural resources. **Agribusiness Systems** AG-BIZ Apply management planning principles in AFNR businesses. AG-BIZ.1 Use record keeping to accomplish AFNR business objectives, manage budgets, and comply with laws and AG-BIZ.2 regulations. AG-BIZ.5 Use sales and marketing principles to accomplish AFNR business objectives. **Plant Systems** AG.PL Develop and implement a crop management plan for a given production goal that accounts for AG-PL.1 environmental factors. Apply the principles of classification, plant anatomy, and plant physiology to plant production and AG-PL.2 management. Propagate, culture, and harvest plants and plant products based on current industry standards. AG-PL.3 Apply principles of design in plant systems to enhance an environment (e.g., floral, forest, landscape, and

AG-PL.4

farm).

FFA - Career Ready Practices	
Act as a responsible and contributing citizen and employee.	CRP.1
Apply appropriate academic and technical skills.	CRP.2
Communicate clearly, effectively, and with reason.	CRP.4
Consider the environmental, social, and economic impacts of decisions.	CRP.5
Demonstrate creativity and innovation.	CRP.6
Utilize critical thinking to make sense of problems and persevere in solving them.	CRP.8
Model integrity, ethical leadership, and effective management.	CRP.9
Plan education and career path aligned to personal goals.	CRP.10
Work productively in teams while using cultural/global competence.	CRP.12
Supervised Agricultural Experience - Career Ready Practices	
Act as a responsible and contributing citizen and employee.	CRP.1
Apply appropriate academic and technical skills.	CRP.2
Attend to personal health and financial well-being.	CRP.3
Communicate clearly, effectively, and with reason.	CRP.4
Utilize critical thinking to make sense of problems and persevere in solving them.	CRP.8
Model integrity, ethical leadership, and effective management.	CRP.9
Plan education and career path aligned to personal goals.	CRP.10
Use technology to enhance productivity.	CRP.11
Work productively in teams while using cultural/global competence.	CRP.12